

Newsletter

August 2025 Issue 2

#SealingTheFuture

Hot News!

CLEAN, STRONG, COMPLIANT

Introducing Crossflon® FG: Food Grade PTFE for Tomorrow's Manufacturing

Beldam Crossley is proud to announce the launch of Crossflon® FG, a certified food-grade PTFE material approved under EU Regulation 10/2011. Now available with a Declaration of Compliance (DoC), Crossflon® FG delivers proven safety, performance, and versatility for food contact applications.

Managing Director Dave Haxton states:

"Crossflon® FG marks a significant step forward in our polymer innovation strategy. It allows us to serve our food and beverage customers with confidence, offering regulatory-compliant materials that are manufactured to the highest standards here in the UK."



In the image, you can see Dave, the Managing Director, Holding a fresh reel of Crossflon FG

REGULATORY COMPLIANT

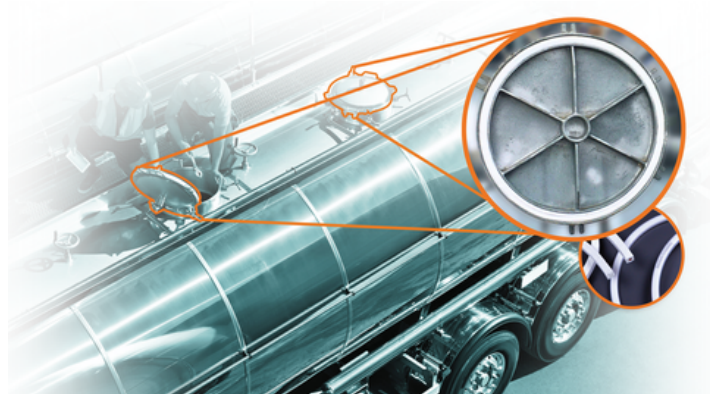
Offered in a super clean 'Eternal White' colour, Crossflon® FG is stronger than standard PTFE and boasts excellent low-friction, wear-resistant properties.

It is already being used in cereal and chocolate production facilities across the UK and Europe in:

- PTFE Bearings for mixers and conveyors
- Bushes and Seals for shafts and valves
- Nozzles for filling and spraying
- Liners and Guides for hygienic production systems

Backed by full traceability, test data, and cross-sector approvals, Crossflon® FG exemplifies Beldam Crossley's commitment to trusted performance and continuous innovation.

SECURING SAFETY ON THE MOVE



➔ Beldam Crossley Reinforces Road & Rail Tanker Safety with LidPack® Seals and Ball Valve Kit

Originally developed to meet the rigorous demands of the marine industry, Beldam Crossley's LidPack® sealing technology is now being widely adopted in road and rail tanker systems. As the only UK manufacturer of DNV- and US Coast Guard-approved rope hatch seal, Beldam Crossley continues to set the benchmark in sealing performance.

With tanker operators increasingly frustrated by the short lifespan and unreliable performance of imported seal kits, Beldam Crossley has stepped in with an answer: durable, chemically inert, and UK-manufactured ball valve seal kits. These seals resist deformation, endure extended storage, and offer long-term reliability in extreme environments. Alongside the LidPack® sealing products – Beldam Crossley are a single source solution for tanker sealing technology.

“Director Gareth Holt explains, *“Tanker owners are under pressure to reduce leaks, comply with international safety standards, and minimise downtime. Our LidPack® seals help customers move away from generic imports and invest in solutions designed to perform under critical conditions.”*

From food-grade options made with titanium dioxide, to WRAS-approved materials and ATEX-compliant Crossflon™ 1801 blends, the offering is tailored for a wide range of critical applications. With full control from their Bolton facility, Beldam Crossley ensures timely delivery, technical support, and consistent quality across every product. To learn more or request a custom design, visit: www.beldamcrossley.co.uk

ENGINEERING THAT LASTS

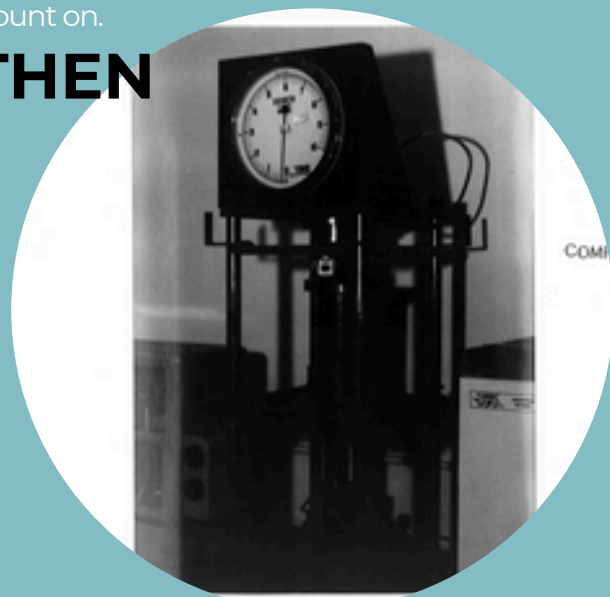
How Decades of Testing Shaped the LidPack® Legacy

Testing has always been the foundation of trust at Beldam Crossley. From the 1970s, when an iconic compression tester helped validate early LidPack® seals, to today's investment in the Tinius Olsen 10ST Tensometer, the mission remains unchanged: test everything, trust only what's proven.

The Tinius Olsen, a £30,000 addition to our test facility & replicates real-world compressive forces with precision. These tests demonstrate how LidPack® seals consistently recover after thousands of cycles, preserving the integrity of tanks, hatches, and systems.

This is more than testing. It's about ensuring every seal we make upholds our reputation for safety, reliability, and longevity—values that customers count on.

THEN



NOW



www.beldamcrossley.co.uk

GLOBAL ENERGY – Driving the Future

Meet Martin Lister – Our Energy Transition Ambassador



Martin is leading our commitment to supporting the renewable energy sector with high-performance, precision-engineered components. His mission is to ensure Beldam Crossley plays a pivotal role in the future supply chain for the clean energy market.

From attending major industry events and conferences to conducting in-depth research and building relationships with key manufacturers, Martin is actively shaping opportunities in the future fuels sector. We are making significant progress in supplying custom components and sealing solutions to leading turbine, tidal, and hydrogen equipment manufacturers worldwide.

If you're attending any of the events listed, connect with Martin to arrange a dedicated one-to-one meeting:
martin.lister@beldamcrossley.co.uk

Upcoming Events

World Hydrogen Week 2025 –
Copenhagen
6-10 Oct



Hydrogen Tech Expo –
Hamburg
21-23 Oct



Ecomondo – Rimini
4-7 Nov



Hydrogen Innovation
Showcase
London – 12 Nov



DEPARTMENT INSIGHTS: ENGINEERING IN FOCUS

Beldam Crossley launched internal open days to highlight the depth of talent and capability within each department. The Engineering team opened the series, showcasing the problem-solving process from design to test, complete with practical demonstrations of product and material evaluation. These sessions are designed to enhance cross-department understanding and strengthen the collaborative culture that drives our success.





REFLECTIONS PART 2: A HISTORY OF INNOVATION

(Part 1 can be found on our blog page)

This problem of inadequate packings was right on Asplan Beldam's doorstep because of his pursuit of high steam pressures, so he bent his considerable abilities to finding a solution. His answer was the first compound—packing. He rolled a sandwich of woven fabric and pleated white metal foil into a cylinder, like a Swiss roll, where the foil represented the filling. This cylinder was then pressure-formed into whatever cross-section—square, round, triangular—a particular application called for. Pleating the metal foil gave the packing a degree of flexibility, which enabled it to be used for situations of almost any diameter and to bend without fracture.

The new packing proved to be vastly more durable and effective in Beldam's high-pressure engines than existing types. News of this improved performance soon spread around the marine engineering fraternity, and a number of inquiries from other steam users doubtlessly convinced Asplan Beldam that his packing had a high commercial potential. So, in 1876, he patented the packing and formed the Beldam Packing and Rubber Company to exploit it.

By that time, he had ceased to be the servant of any one company and had set up as a consulting engineer and naval architect in the City of London. In that capacity, he undertook numerous commissions for shipbuilders and shipowners. One of his outstanding achievements was to design and supervise the building of a ship which became the fastest vessel afloat. She was the STIRLING CASTLE—iron-hulled, screw-driven, and steaming at 100 lb. per square inch. Launched in January 1882, with a deadweight tonnage of over 6,000, she was big for her day.



Portrait of The Stirling Castle as Sea

In the same year, she provided a splendid vindication of our founder's high-pressure designs—and of Beldam packings too—by leaving the China tea port of Woosung with 6,000 tons of tea on May 23 and arriving in London on June 22—effectively a 30-day trip, with a steaming time of just under 28 days. That was a remarkable performance when most steamers took anything from 40 to 60 days: the previous record by a steamer was 36 days. To show that this was no engine-wrecking, flash-in-the-pan effort, the STIRLING CASTLE repeated the feat in 1883, leaving Hankow on May 22 and arriving with clockwork precision in London on June 22.

INVESTMENT IN INNOVATION

Two major equipment upgrades have further reinforced our manufacturing capacity:

Surface Grinder – A £35,000 investment from a trusted UK supplier, this new machine boosts shop floor capacity and precision, particularly for steel ring production.

Etching Room Upgrade – A modern air extraction system has been installed to improve safety and performance. Etching allows PTFE to bond to other materials, transforming 'slippy' to 'grippy', a vital capability for seal, mat, and bellow production.



The new Skidway Press Equipment

DELIVERING EXCELLENCE: EXCEEDING 100% OTIF

In May, Beldam Crossley achieved 100% On-Time In-Full (OTIF) delivery for the first time in company history. Not only were all deliveries on time, but many exceeded expectations with early completion.

To mark the achievement, the team was treated to a celebratory lunch provided by local favourite Sushma Snacks. It was a well-earned reward for an exceptional performance in customer service.

And not to forget all the glorious sunshine with that hard work has warranted not one but two visits from the ice cream van this summer!



Beldam Team Rallies for The Christie Hospital

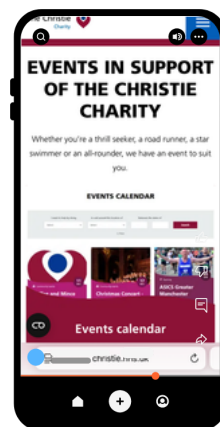


Steve H achieved an incredible milestone by completing a 10k run, and on July 13th, Jonathan went even further by taking on the Manchester to Blackpool charity ride in support of The Christie Hospital. All in honour of those whose lives have been touched by cancer, their determination and commitment stand as an inspiring example of courage, compassion, and resilience.

They raised an impressive sum of money for the cause and together, they embody the community-driven spirit and values that define Beldam Crossley.

The Christie is the largest single site cancer centre in Europe and the first in the UK to be accredited as a comprehensive cancer centre.

There are many ways to support The Christy Charity and they have tons of fun events all year round, if you want to get involved they can all be found on their website



SCAN HERE



SUPPORTING STEM SUCCESS

RACE TO THE LINE

Congratulations to Lever Park Academy for securing 1st, 2nd, and joint 4th place in the regional final of "Race to the Line"—a STEM competition where students design and build CO2-powered cars. Beldam Crossley proudly sponsored their efforts. Their success is a testament to the power of partnership and the impact that hands-on engineering can have on young minds.



THATS QUALITY



Ade has been on essential BSI training, attending a course in York and passing with flying colours. This particular programme was to support Ade in exceeding our ISO14001 requirements

